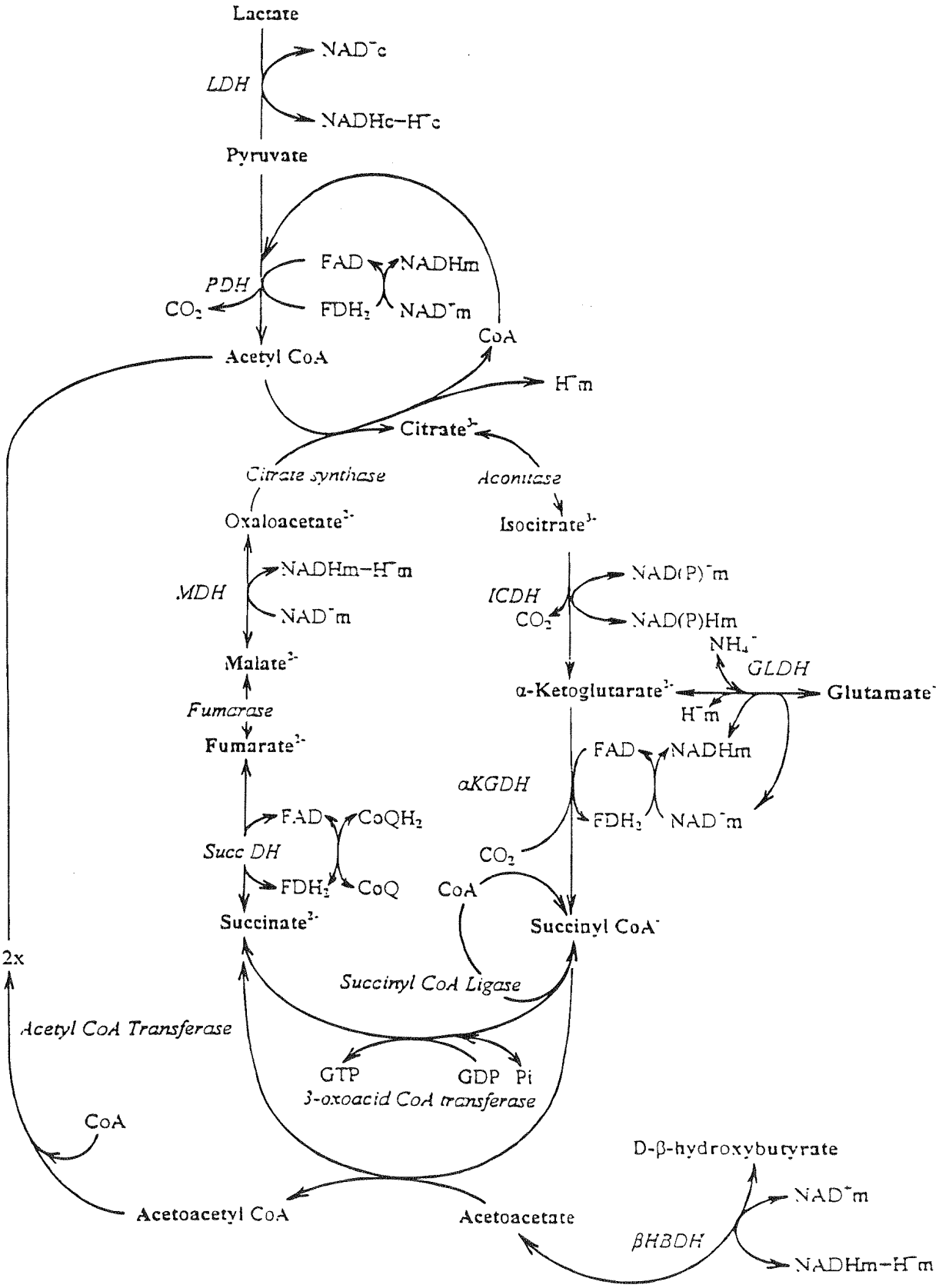
Lactate
LDH
NAD+c
NADHc–H+c
Pyruvate
PDH
FAD
NADHm
CO2
FDH2
NAD+m
CoA
Acetyl CoA
H+m
Citrate3-
Citrate synthase
Aconitase
Oxaloacetate2-
Isocitrate3-
MDH
NADHm–H+m
NAD+m
ICDH
NAD(P)+m
CO2
NAD(P)Hm
NH4+
GLDH
Malate2-
α-Ketoglutarate2-
Glutamate-
H+m
Fumarase
Fumarate2-
FAD
NADHm
αKGDH
FAD
CoQH2
FDH2
NAD+m
Succ DH
CO2
FDH2
CoQ
CoA
Succinate2-
Succinyl CoA-
2x
Succinyl CoA Ligase
Acetyl CoA Transferase
GTP
GDP
Pi
3-oxoacid CoA transferase
CoA
D-β-hydroxybutyrate
NAD+m
Acetoacetyl CoA
Acetoacetate
βHBDH
NADHm–H+m

FIG. 3